

Title (en)

Rectangular panel-form loudspeaker and its radiating panel

Title (de)

Rechteckiger plattenförmiger Lautsprecher und Abstrahlplatte desselben

Title (fr)

Haut-parleur rectangulaire en forme de panneau et son panneau radiant

Publication

**EP 1398992 A1 20040317 (EN)**

Application

**EP 02019796 A 20020905**

Priority

- EP 02019796 A 20020905
- US 22569202 A 20020822

Abstract (en)

A rectangular panel-form loudspeaker structure comprises radiating panel comprising rectangular laminated composite plate, transducer comprising voice coil assembly and magnet assembly, and suspending unit made of a soft material and disposed between peripheral edges of the laminated composite plate and the frame. The voice coil assembly is coupled to a first side of the laminated composite plate at a first specified location. A rectangular panel-form loudspeaker structure comprises radiating panel comprising a rectangular laminated composite plate, transducer comprising voice coil assembly (170) and magnet assembly (180), frame (160) for positioning the laminated composite plate and the magnet assembly, and suspending unit (150) made of a soft material and disposed between peripheral edges of the laminated composite plate and the frame. The laminated composite plate comprises an intermediate core layer (142) sandwiched between two fiber-reinforced polymeric layers (141). The transducer excites the radiating panel to produce flexural vibration. The voice coil assembly is coupled to a first side of the laminated composite plate at a first specified location.

IPC 1-7

**H04R 7/04**

IPC 8 full level

**H04R 7/04** (2006.01)

CPC (source: EP US)

**H04R 7/045** (2013.01 - EP US)

Citation (search report)

- [A] EP 1170977 A1 20020109 - KAM TAI YAN [TW]
- [A] WO 9839947 A1 19980911 - NEW TRANSDUCERS LTD [GB], et al
- [A] EP 0969691 A1 20000105 - SONY CORP [JP]

Citation (third parties)

Third party :

WO 9709842 A2 19970313 - VERITY GROUP PLC [GB], et al

Cited by

US8989430B2; WO2008132170A1; WO2020107617A1; WO2008136822A3; JP2010526478A

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